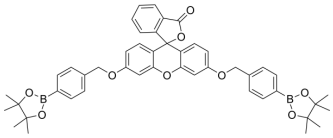
FBBBE

Cat. No.:	HY-D1693
CAS No.:	1522117-83-4
Molecular Formula:	$C_{46}H_{46}B_2O_9$
Molecular Weight:	764.47
Target:	Fluorescent Dye
Pathway:	Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	FBBBE is used to detect the production of H_2O_2 by cells. FBBBE can be triggered by intracellular H_2O_2 and converted to fluorescein, resulting in an increase in intracellular fluorescence (Ex=4480 nm, Em=512 nm)[1].
IC_{50} & Target	H_2O_2[1]
In Vitro	Guidelines (Following is our recommended protocol. This protocol only provides a guideline, and should be modified according to your specific needs)[1]. 1. The RAW 264.7 cells are seeded at 250,000 in glass bottom 35 mm dishes and post-adhering (5 h). 2. Some dishes are treated with 1 μg/mL of LPS for 24 h. Other dishes are treated the next day after plating with either 100 μM H_2O_2 for 1 h or PBS for 1 h. 3. Cells are washed twice with PBS and fixed in ice-cold 95% ethanol for 15 min. 3. Cells are twice rinsed with PBS and incubated with either 50 μM probe (FBBBE) for 1 h at room temperature. 4. Cells are washed twice with PBS and coverslips were mounted over cells using Aqua Mount. 5. Confocal images are obtained at 80× magnification on an Olympus FV1000 confocal laser scanning microscope. 6. Images were processed using ImageJ software. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Daniel, K.B., et al. Readily accessible fluorescent probes for sensitive biological imaging of hydrogen peroxide. Chembiochem 14(5), 593-598 (2013).

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